Transistors Panasonic

2SC5609G

Silicon NPN epitaxial planar type

For general amplification Complementary to 2SA2021G

■ Features

• High forward current transfer ratio h_{FE}

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	60	V	
Collector-emitter voltage (Base open)	V _{CEO}	50	V	
Emitter-base voltage (Collector open)	V _{EBO}	7	V	
Collector current	I_{C}	100	mA	
Peak collector current	I _{CP}	200	mA	
Collector power dissipation	P _C	100	mW	
Junction temperature	T_{j}	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

■ Package

- Code SSSMini3-F2
- Pin Name
 - 1. Base
 - 2. Emitter
 - 3. Collector
- Marking Symbol: 3F

■ Electrical Characteristics $T_a = 25$ °C±3°C

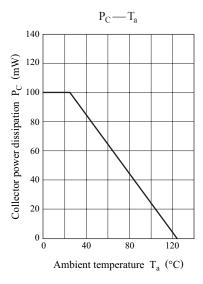
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu A, I_E = 0$	60			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	50			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu A, I_C = 0$	7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 20 \text{ V}, I_{E} = 0$			0.1	μА
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = 10 \text{ V}, I_{B} = 0$			100	μА
Forward current transfer ratio	h _{FE1}	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$	180		390	_
	h _{FE2} *	$V_{CE} = 2 \text{ V}, I_{C} = 100 \text{ mA}$	90			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 100 \text{ mA}, I_B = 10 \text{ mA}$		0.1	0.3	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance (Common base, input open circuited)	C _{re}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3.5		pF

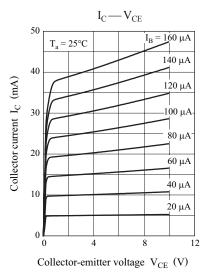
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

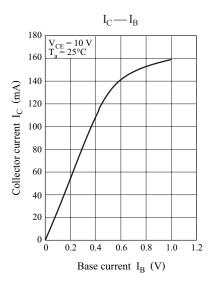
^{2. *:} Pulse measurement

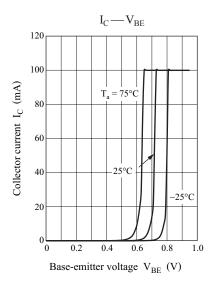
2SC5609G

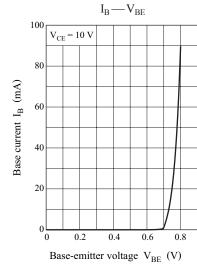
Panasonic

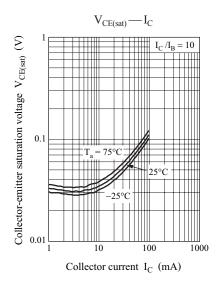


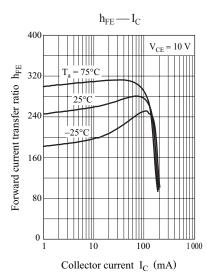








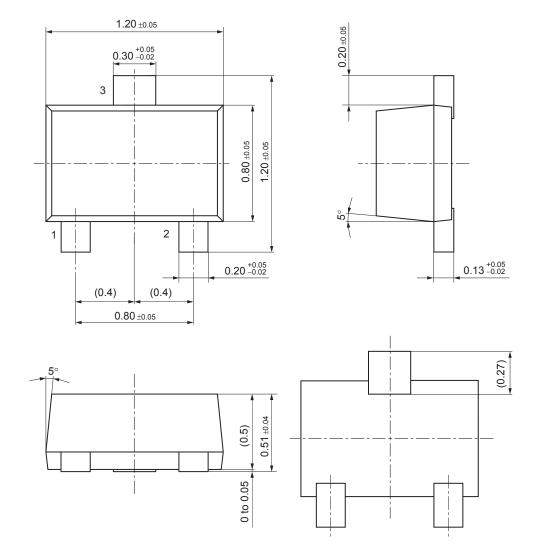




2 SJC00427BED

SSSMini3-F2

Unit: mm



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